

Fireproof polystyrene foam, used for insulation e.g. in buildings, cars or furniture, comprises a mixture of styrene polymer, phenolic resin and expandable graphite**Publication number:** DE19910257 (A1)**Publication date:** 2000-09-21**Inventor(s):** MARZOUKI TAIEB [DE]**Applicant(s):** SCHWENK DAEMMTECHNIK GMBH & CO [DE]**Classification:**

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C08J9/00; C08L25/00; C08L61/00; (IPC1-7): C08J9/00;
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Application number: DE1991010257 19990308**Priority number(s):** DE19991010257 19990308**Cited documents:**

- DE1090853 (B)
- US5721281 (A)
- US5719199 (A)
- US5650448 (A)

Abstract of DE 19910257 (A1)

Fire-resistant polystyrene-based foam comprises a mixture of (A) 90-10 wt% styrene polymer (PS) and (B) 10-90 wt% phenolic resin, with the addition of (C) 5-50 wt% expandable graphite (based on mixture A + B). Independent claims are also included for (a) a process for the production of PS particle mouldings by making a mixture of phenolic resin, hardener and blowing agent and/or other conventional additives, mixing this with unexpanded PS beads, mixing the phenolic resin-coated or -wetted beads with expandable graphite (C), introducing the mixture into a mould and sintering by the standard steam shock method; (b) an alternative process involving mixing PS beads with (C), combining the coated beads with the resin/hardener/blowing agent mixture, curing the phenolic resin in a mould and sintering as in (a).

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